



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
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# RB H4749 Job Sheet 193138



Part No: RB H4749

Job Qty: 3 pcs

*MLC*

Part Name: Drain Hose



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 4/9/19

Job Tracking No:

Due Date: 4/30/19

Created By: Dara Macdonald

Type: Stock

Description:

Note: DWG RB H4749 Rev 5A IPP Rev A 18.03.12 New issue DP Verify DD

Ship Via:

## Bill of Materials

## Job Routing

| Op No | Operation                   | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off   |
|-------|-----------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|------------|
|       |                             |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |            |
| 100   | Small Fab - 1               | 3 pcs | 4/30/19    | 4/30/19  | 0.00      | 0.38    | Small Fab - 1         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 2         |           | <i>MLC</i> |
|       |                             |       |            |          |           |         | Small Fab - 3         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 4         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 5         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 6         |           |            |
|       |                             |       |            |          |           |         | Small Fab - 7         |           |            |
| 110   | QC 5                        | 3 pcs | 4/30/19    | 4/30/19  | 0.00      | 0.00    | QC 5 - 10             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 12             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 17             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 18             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 19             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 22             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 24             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 3              |           |            |
|       |                             |       |            |          |           |         | QC 5 - 43             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 49             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 51             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 58             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 68             |           |            |
|       |                             |       |            |          |           |         | QC 5 - 9              |           |            |
|       |                             |       |            |          |           |         | QC 5 - 50             |           |            |
| 130   | Packaging 3-1 - Stock - B4B | 3 pcs | 4/30/19    | 4/30/19  | 0.00      | 0.00    | Packaging 3 - 1 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 2 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 3 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 4 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 5 - B4B |           |            |
|       |                             |       |            |          |           |         | Packaging 3 - 6 - B4B |           |            |



Container No: S188339



Part: RB H4749

Job No: 193138

Serial No/Batch: S188339

Revision: 5A

Inspector:

Exp Date:

Instructions:

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Date: 06/06/19

|                |       |         |           |                        |      |
|----------------|-------|---------|-----------|------------------------|------|
|                |       |         |           | Packaging 3 - 7 - B4B  |      |
|                |       |         |           | Packaging 3 - 8 - B4B  |      |
|                |       |         |           | Packaging 3 - 9 - B4B  |      |
|                |       |         |           | Packaging 3 - 10 - B4B |      |
|                |       |         |           | Packaging 3 - 11 - B4B |      |
|                |       |         |           | Packaging 3 - 12 - B4B |      |
|                |       |         |           | Packaging 3 - 13 - B4B |      |
|                |       |         |           | Packaging 3 - 14 - B4B |      |
|                |       |         |           | Packaging 3 - 15 - B4B |      |
|                |       |         |           | Packaging 3 - 16 - B4B |      |
|                |       |         |           | Packaging 3 - 17 - B4B |      |
|                |       |         |           | Packaging 3 - 18 - B4B |      |
|                |       |         |           | Packaging 3 - 19 - B4B |      |
|                |       |         |           | Packaging 3 - 20 - B4B |      |
|                |       |         |           | Packaging 3 - 21 - B4B |      |
|                |       |         |           | Packaging 3 - 22 - B4B |      |
|                |       |         |           | Packaging 3 - 23 - B4B |      |
|                |       |         |           | Packaging 3 - 24 - B4B |      |
|                |       |         |           | Packaging 3 - 25 - B4B |      |
|                |       |         |           | Packaging 3 - 26 - B4B |      |
|                |       |         |           | Packaging 3 - 27 - B4B |      |
|                |       |         |           | Packaging 3 - 28 - B4B |      |
|                |       |         |           | Packaging 3 - 29 - B4B |      |
|                |       |         |           | Packaging 3 - 30 - B4B |      |
|                |       |         |           | Packaging 3 - 31 - B4B |      |
|                |       |         |           | Packaging 3 - 32 - B4B |      |
|                |       |         |           | Packaging 3 - 33 - B4B |      |
|                |       |         |           | Packaging 3 - 34 - B4B |      |
|                |       |         |           | Packaging 3 - 35 - B4B |      |
|                |       |         |           | Packaging 3 - 36 - B4B |      |
| 140 QC 21 - FG | 3 pcs | 4/30/19 | 0.00 0.00 | QC 21 - FG - 21        | Dave |
|                |       |         |           | QC 21 - FG - 70        | Dave |
|                |       |         |           | QC 21 - SA - 53        | 21   |

Part Op 100 - (Small Fab) 1- Cut tube (2044T47) as per DWG 2- Assemble as per DWG Install a 1.0" long, 0.38" OD, 0.25" ID  
 Descriptions: piece of Stainless Steel into one end of the Kuri-Tech Hose until flush. Attach the modified end of the Kuri-Tech Hose to the Coupling before placing tool into packaging (if applicable).

110 - (QC5- Inspect part completeness to step on W/O)

130 - (Identify as per dwg & Stock Location: \_\_\_\_\_) Identify and Stock

140 - (QC21- Final Inspection - Work Order Release)

#### Job BOM

| Part / Item      | Component Name                | Quantity                 | Operation         | Container             |
|------------------|-------------------------------|--------------------------|-------------------|-----------------------|
| 2044T47          | Tube Ø1.09                    | 5.28 1.4400 ft (.48 ea)  | 100-Small Fab - 1 | 4x5142226/23x5016 490 |
| 2044T67          | Cap Ø1.09                     | 22 6 Ea (2 ea)           | 100-Small Fab - 1 | 5153139               |
| 51495K116        | COUPLING 1/2" NCKL PLTD BRASS | 11 3 Ea (1 ea)           | 100-Small Fab - 1 | 1x5172643/10x5180 874 |
| K010-0608        | *Hose Ø1/2 OD x Ø3/8 ID       | 66 18 ft (6 ea)          | 100-Small Fab - 1 | 60x5156086/6x5176072  |
| PAD210           | *Foam Ø1 X 1                  | .077 .0210 sf (.007 ea)  | 100-Small Fab - 1 | 5021250               |
| RB H4749-1       | Drain Hose Body               | 11 3 pcs (1 ea)          | 100-Small Fab - 1 | 5150338               |
| 9263K642         | O-Ring                        | 11 3 Ea (1 ea)           | 100-Small Fab - 1 | 5148081               |
| M304TR0.375W.065 | 304 Round Tube .375 X .065W   | .9130 .2490 ft (.083 ea) | 100-Small Fab - 1 | 5145223               |

Master Unit

010212

\*Hose & Foam on SmallFab  
 shelf pour autre Jobs

**Job Allocations**

| Operation         | Component Part   | Required | Inventory | Allocated |
|-------------------|------------------|----------|-----------|-----------|
| 100-Small Fab - 1 | 2044T47          | 1        | 54        | 0         |
|                   | 2044T67          | 6        | 165       | 0         |
|                   | 51495K116        | 3        | 41        | 0         |
|                   | 9263K642         | 3        | 50        | 0         |
|                   | K010-0608        | 18       | 287       | 0         |
|                   | M304TR0.375W.065 | 0        | 49        | 0         |
|                   | PAD210           | 0        | 3         | 0         |
|                   | RB H4749-1       | 3        | 12        | 0         |

**Part Specifications**

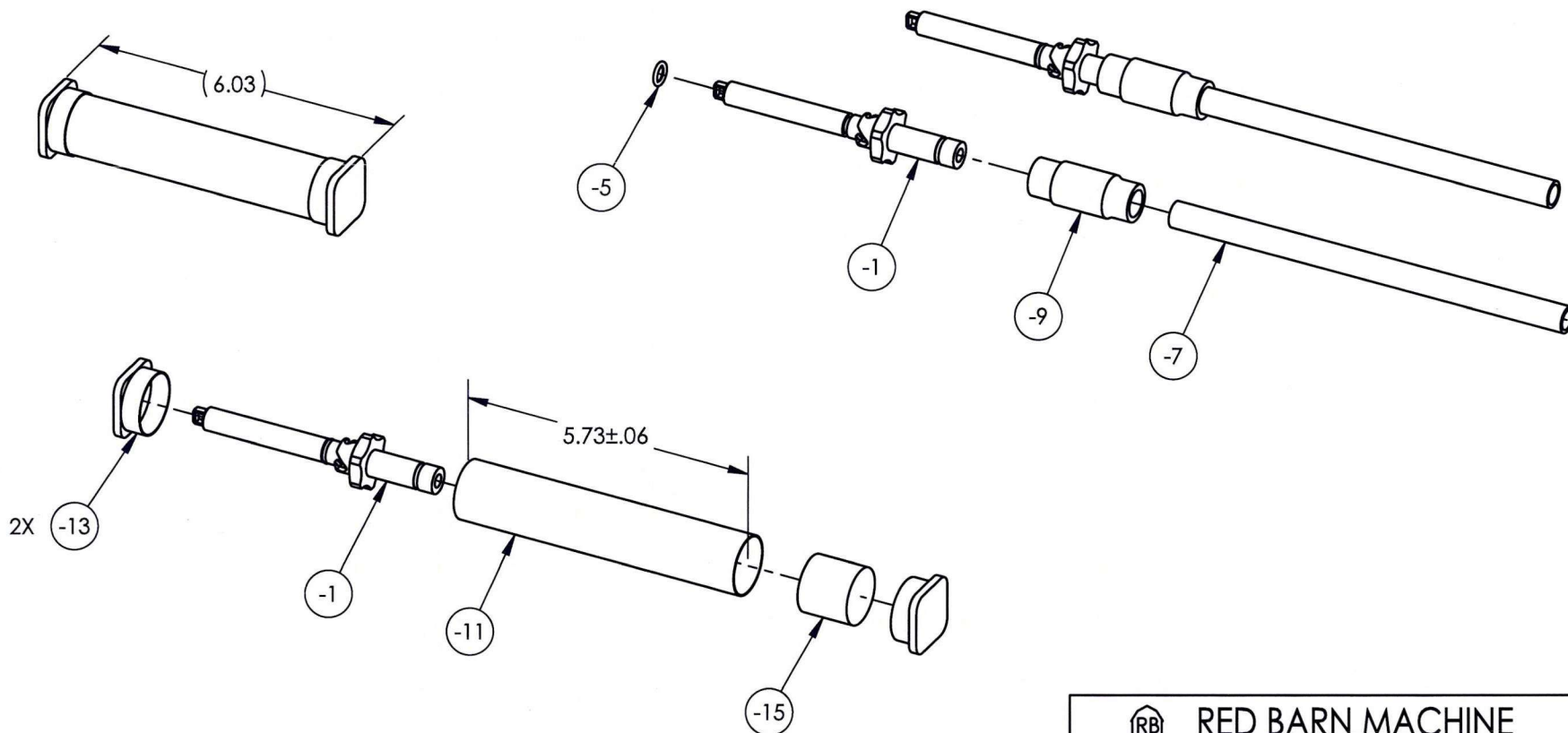
Specifications could not be found.

Plex 4/9/19 10:12 AM Dart.Macdonald.Dara



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| REVISIONS |                                                                                                                                                                                                                                                                                                                                        |           |         |          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|----------|
| REV       | DESCRIPTION                                                                                                                                                                                                                                                                                                                            | DATE      | INITIAL | APPROVED |
| 1         | DELETED ITEM #'S AND LISTED AS PART #'S, ALSO IMPLEMENTED NEW REV., BOM & TITLE BLOCK                                                                                                                                                                                                                                                  | 9/21/07   | WP      | RW       |
| 2         | DELETED -3 COLLAR, & ADDED -9 CLAMP, REFORMED DIMENSIONS & ADDED ASSY VIEW                                                                                                                                                                                                                                                             | 7/24/2012 | WP      | RW       |
| 3         | CH'D TOOL NUMBER FROM H4749 PER E.B. CH'D ANGLE OF NOTCH FROM 60° TO 90° PER G.E.                                                                                                                                                                                                                                                      | 7/24/2012 | RJC     | RW       |
| 4         | MODIFIED -1 TO USE WITH COUPLING, ADDED COUPLING, TUBE, AND CAPS, REMOVED HOSE CLAMP.                                                                                                                                                                                                                                                  | 7/24/2012 | JAG     | SE       |
| 5         | -1 ADDED MISSING DIM $\varnothing .312$ , CH'D DIM WAS .125 IS .125+/.005/- .000 $\nabla .090$ .                                                                                                                                                                                                                                       | 2/26/2013 | BIM     | JG       |
| 5A        | CH'D -11 LENGTH FROM 5.83 TO 5.73 & -15 MATERIAL. -1 CH'D TOL TO 2 PLC ON 1.35, .05, & 4.98, DP 4.935 TO 4.93 MAX, WAS $\varnothing 1.062$ IS $\varnothing 1.06$ . CH'D NOTES WAS ENGRAVE P/N IS ENGRAVE T/N, S/N, "MADE IN USA", WAS 6X R.375 EQUALLY SPACED IS 6X R.38 EQUALLY SPACED ON $\varnothing 1.60$ B.C. DELETED .244, .096. | 1/30/2014 | JAG     | GE       |

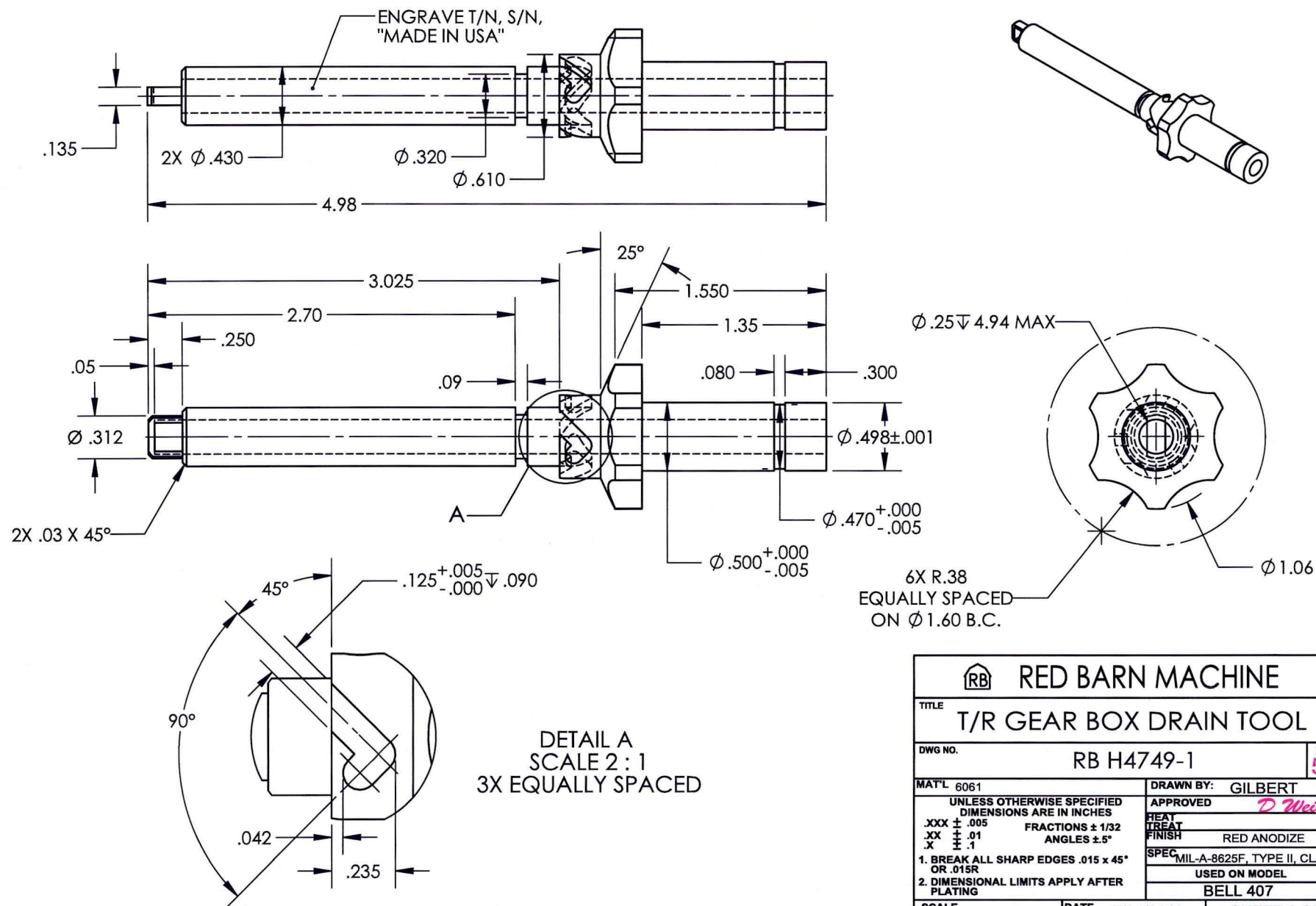


| ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description | Material               | B/O INFORMATION OR SPECIFICATIONS                                          | PG. |
|----------|----------|-----|--------|----------|-------------|------------------------|----------------------------------------------------------------------------|-----|
|          |          |     | -1     | 1        | BODY        | 6061                   | $\varnothing 1-1/8$ X 5-1/8                                                | 2   |
|          |          | B/O | -5     | 1        | O-RING      | VITON                  | 2-011N70 OR MCMASTER-CARR #9263K642                                        | 1   |
|          |          | B/O | -7     | 1        | HOSE        | VINYL                  | $\varnothing 1/2$ O.D. x $\varnothing 3/8$ I.D. x 6ft KURI-TECH #K010-0608 | 1   |
|          |          | B/O | -9     | 1        | COUPLING    | NICKEL-PLATED BRASS    | $\varnothing 1/2$ MCMASTER-CARR #51495K116                                 | 1   |
|          |          | B/O | -11    | 1        | TUBE        | POLYETHYLENE           | $\varnothing 1.09$ MCMASTER-CARR #2044T47                                  | 1   |
|          |          | B/O | -13    | 2        | CAP         | VINYL                  | $\varnothing 1.09$ MCMASTER-CARR #2044T67                                  | 1   |
|          |          | B/O | -15    | 1        | FOAM        | POLYESTER/POLYURETHANE | $\varnothing 1$ X 1 NEW PIG CORP. #PAD210                                  | 1   |

|                                                                                                                                                                                                                                     |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>RED BARN MACHINE</b>                                                                                                                                                                                                             |                          |
| TITLE<br><b>TRANS. &amp; GEAR BOX DRAIN TOOL</b>                                                                                                                                                                                    |                          |
| DWG NO.<br><b>RB H4749</b>                                                                                                                                                                                                          | REV<br><b>5A</b>         |
| MAT'L<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .005 FRACTIONS ± 1/32<br>.XX ± .01 ANGLES ± 5°<br>.X ± .1<br>1. BREAK ALL SHARP EDGES .015 x 45°<br>OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER PLATING |                          |
| DRAWN BY: D. ROBERTS<br>APPROVED <i>D. Weil</i><br>HEAT TREAT FINISH<br>SPEC<br>USED ON MODEL<br><b>BELL 407</b>                                                                                                                    |                          |
| SCALE<br><b>1:3</b>                                                                                                                                                                                                                 | DATE<br><b>2/28/2000</b> |
| SHEET 1 OF 2                                                                                                                                                                                                                        |                          |

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| REVISIONS |                                                                                                                                                                                                                                                                 |           |         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|
| REV       | DESCRIPTION                                                                                                                                                                                                                                                     | DATE      | INITIAL |
| 4         | INCREASED STEM LENGTH FROM .80 TO 1.35, REMOVED BARB ADDED GROOVE.                                                                                                                                                                                              | 7/24/2012 | JAG     |
| 5         | ADDED MISSING DIM $\phi .312$ , CH'D DIM WAS .125 IS $.125^{+.005}_{-.000} \sqrt{.090}$                                                                                                                                                                         | 2/26/2013 | BIM     |
| 5A        | -1 CH'D TOL TO 2 PLC ON 1.35, .05, & 4.98, DP 4.935 TO 4.93 MAX, WAS $\phi 1.062$ IS $\phi 1.06$ , CH'D NOTES WAS ENGRAVE P/N IS ENGRAVE T/N, S/N, "MADE IN USA", WAS 6X R.375 EQUALLY SPACED IS 6X R.38 EQUALLY SPACED ON $\phi 1.60$ B.C. DELETED .244, .096. | 1/30/2014 | JAG     |



|                                                        |                                     |
|--------------------------------------------------------|-------------------------------------|
| <b>RED BARN MACHINE</b>                                |                                     |
| TITLE<br><b>T/R GEAR BOX DRAIN TOOL</b>                |                                     |
| DWG NO.<br><b>RB H4749-1</b>                           | REV<br><b>5A</b>                    |
| MAT'L 6061                                             | DRAWN BY: GILBERT                   |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i>              |
| .XXX ± .005 FRACTIONS ± 1/32                           | HEAT TREAT                          |
| .XX ± .01 ANGLES ± 5°                                  | FINISH RED ANODIZE                  |
| .X ± .1                                                | SPEC MIL-A-8625F, TYPE II, CLASS II |
| 1. BREAK ALL SHARP EDGES .015 x 45°<br>OR .015R        | USED ON MODEL                       |
| 2. DIMENSIONAL LIMITS APPLY AFTER<br>PLATING           | BELL 407                            |
| SCALE 1:1                                              | DATE 7/24/2012                      |
| SHEET 2 OF 2                                           |                                     |